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> Caleffi 870 Connecting Piece Sleeve Deca 870 Diameter 25 User Manual

Caleffi 870

Caleffi 870 Connecting Piece User Manual

Model: 870

PRODUCT OVERVIEW

The Caleffi 870 Connecting Piece is a brass sleeve designed for joining PE plastic pipes. It facilitates a secure connection, accommodating a maximum distance of 50 mm between pipe ends. This component is engineered for specific operational parameters to ensure reliable performance in plumbing systems.



Figure 1: The Caleffi 870 Connecting Piece, a brass sleeve with hexagonal nuts on both ends, designed for joining pipes.

TECHNICAL SPECIFICATIONS

Specification	Value
Model Number	870
Material	Brass
Compatible Pipe Type	PE Plastic Pipes
Maximum Operating Pressure	16 bar
Maximum Operating Temperature	40 °C
Maximum Pipe End Distance	50 mm

Approximate Weight	349 g
Nominal Diameter	25 mm

INSTALLATION (SETUP)

Proper installation is crucial for the long-term performance and leak-free operation of the Caleffi 870 connecting piece. Follow these steps carefully:

- 1. Preparation:** Ensure that the ends of the PE plastic pipes to be joined are clean, free from burrs, and cut squarely.
- 2. Disassembly:** Unscrew the nuts from both ends of the Caleffi 870 connecting piece. Remove the compression rings and any other internal components if present, keeping them in order.
- 3. Pipe Insertion:** Slide one nut, followed by a compression ring (if applicable), onto each pipe end.
- 4. Connection:** Insert the pipe ends into the body of the Caleffi 870 connecting piece. Ensure that the pipes are fully seated and that the maximum distance between the pipe ends does not exceed 50 mm within the fitting.
- 5. Tightening:** Hand-tighten the nuts onto the connecting piece. Then, using an appropriate wrench, tighten the nuts further until a secure, leak-proof connection is achieved. Avoid over-tightening, which can damage the pipe or the fitting.
- 6. Verification:** After installation, visually inspect the connection for proper alignment.

Note: Always consult local plumbing codes and regulations before beginning any installation work. Professional installation is recommended for complex systems.

OPERATION

The Caleffi 870 connecting piece is a passive component designed to create a permanent, sealed connection between two PE plastic pipes. Once correctly installed, it operates by maintaining the integrity of the fluid pathway under specified pressure and temperature conditions.

- **Pressure Limits:** Do not exceed the maximum operating pressure of 16 bar. Exceeding this limit can lead to leaks or component failure.
- **Temperature Limits:** Do not expose the fitting to temperatures above 40 °C. High temperatures can compromise the material integrity and sealing capabilities.
- **Fluid Compatibility:** Ensure that the fluid passing through the pipes is compatible with brass and PE plastic materials.

No active user operation is required after installation, as the fitting functions as a static connection point.

MAINTENANCE

The Caleffi 870 connecting piece is designed for minimal maintenance once installed correctly. However, periodic inspection is recommended to ensure continued performance.

- **Visual Inspection:** Periodically check the connection points for any signs of leaks, corrosion, or physical damage.
- **Environmental Factors:** Ensure the fitting is not exposed to harsh chemicals or extreme environmental conditions outside its specified operating limits.
- **Cleaning:** If necessary, gently clean the exterior of the fitting with a soft cloth and mild detergent. Avoid abrasive cleaners or solvents.

If any issues are detected, it is recommended to consult a qualified plumber for assessment and repair.

TROUBLESHOOTING

While the Caleffi 870 connecting piece is a robust component, issues can arise, often due to improper installation or external factors. Here are common issues and their potential solutions:

Problem	Possible Cause	Solution
Leakage at connection point	<ul style="list-style-type: none">• Improper tightening of nuts• Damaged compression ring or seal• Pipe ends not clean or cut squarely• Exceeded operating pressure	<ul style="list-style-type: none">• Ensure nuts are tightened securely, but do not over-tighten.• Inspect and replace damaged components.• Re-cut and clean pipe ends before re-installation.• Verify system pressure is within 16 bar limit.
Reduced flow through pipe	<ul style="list-style-type: none">• Obstruction within the pipe or fitting• Pipe not fully seated in the fitting	<ul style="list-style-type: none">• Inspect for blockages; disassemble if necessary.• Ensure pipes are fully inserted into the fitting body.
Fitting corrosion	<ul style="list-style-type: none">• Exposure to incompatible chemicals• Aggressive water chemistry	<ul style="list-style-type: none">• Identify and eliminate exposure to corrosive substances.• Consult a water treatment specialist if water quality is an issue.

For persistent issues or problems not listed, contact a qualified plumbing professional.

WARRANTY INFORMATION

Specific warranty terms for the Caleffi 870 Connecting Piece are provided by the manufacturer, Caleffi. Please refer to the documentation included with your purchase or visit the official Caleffi website for detailed warranty policies. Generally, warranties cover defects in materials and workmanship under normal use and service conditions.

Note: Damage resulting from improper installation, misuse, or exceeding specified operating limits may void the warranty.

SUPPORT AND CONTACT

For technical assistance, product inquiries, or support regarding the Caleffi 870 Connecting Piece, please contact Caleffi customer service or your local distributor.

Caleffi Official Website: www.caleffi.com

Please have your product model number (870) and any relevant purchase information ready when contacting support.